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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/079,816	02/22/2002	Hajime Goto	107348-00211 5520	
4372 7	590 02/25/2004		EXAM	INER
ARENT FOX KINTNER PLOTKIN & KAHN			CANTELMO, GREGG	
1050 CONNECTICUT AVENUE, N.W. SUITE 400 WASHINGTON DC 20036		W.	ART UNIT	PAPER NUMBER
		1745		

DATE MAILED: 02/25/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Commence	10/079,816	GOTO ET AL.			
Office Action Summary	Examiner	Art Unit			
	Gregg Cantelmo	1745			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on	_•				
2a) This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-3</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-3</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9)☐ The specification is objected to by the Examiner	·.	,			
10)⊠ The drawing(s) filed on <u>22 February 2002</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
	priority under 35 LLS C & 110(a)	(d) or (f)			
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachmant(s)					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(DTO 413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te			
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 2/22/04. 	5) ☐ Notice of Informal Pa 6) ☐ Other:	atent Application (PTO-152)			
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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The information disclosure statement filed February 22, 2002 has been placed in the application file and the information referred to therein has been considered as to the merits.

Drawings

3. The drawings received February 22, 2002 are acceptable for examination purposes.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 53012905-A (JP '905).

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JP '905 discloses a hydrogen storage material comprising carbon carriers (abstract) having electrical conductivity and metal or metal alloy coating formed on the carbon carriers having hydrogen absorbing ability (abstract). The amount of the metal, metal alloy or their oxides is less than 20 % by weight of the entire material and includes materials such as Fe, Ca, Ni, Me, W, V, Zn and Mg (abstract as applied to claim 1).

With respect to the interpretation of the term "fine particles": First, the degree of fineness is not specified in claim 1 unlike claim 2. The term fine is not bound by any limits and can be any particle, inclusive of atoms or molecules. Depending on whether a pure metal, metal alloy or metal oxide is deposited in the case of the prior art, all of these coatings are made of discrete "fine particles" (molecules or atoms) the sum of which provides the total amount of the metal, metal alloy or metal oxide on the carbon carrier. Claim 1 does not preclude atoms or molecules as the fine particles for the metal, metal alloy or metal oxide layer. Claim 1 additionally does not define the manner in which the particles are present on the carrier apart from the amount which is present on the carrier, and thus can be either a continuous coating or discrete islands or particles on the carrier (as applied to claim 1).

Whether the particles are atoms or molecules, again depending on whether a metal, metal alloy or metal oxide is formed, both the atoms or molecules of these materials will inherently have sizes less than 1 micron and an average particle size of less than 1 micron (as applied to claim 2).

The carbon is activated carbon (abstract as applied to claim 3).

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Conclusion

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregg Cantelmo whose telephone number is (571) 272-1283. The examiner can normally be reached on Monday to Thursday from 9 a.m. to 6 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pat Ryan, can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. FAXES received after 4 p.m. will not be processed until the following business day. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gregg Cantelmo Patent Examiner Art Unit 1745

gc

February 4, 2004